State of Utah
Administrative Rule Analysis

NOTICE OF PROPOSED RULE OR CHANGE

The agency identified below in box 1 provides notice of proposed rule or change pursuant to Utah Code Subsections 63-46a-4(2) and (4). Please address questions regarding information on this notice to the agency. The full text of all rule filings is published in the *Utah State Bulletin* unless excluded because of space constraints. The full text of all rule filings may also be inspected at the Division of Administrative Rules.

State of Utah Division of Administrative Rules (DAR) 4120 State Office Building; 450 North Main PO Box 141007 Salt Lake City, UT 84114-1007 Phone: (801) 538-3218, FAX: (801) 538-1773 State E-mail: *asdomain.asitmain.rules*	DAR file no.:	
	Utah Admin. Code ref. (R no.):	R156-56-707
	Date filed:	
	Time filed:	
	Received by:	

1. Department:	Commerce
Agency:	Occupational and Professional Licensing
Room no., building:	Heber M. Wells Building - 4th Floor
Street address:	160 East 300 South
Mailing address:	PO Box 146741
City, state ZIP:	Salt Lake City UT 84114-6741
Contact person:	Dan S. Jones
Telephone:	(801) 530-6720
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Internet E-mail:	dsjones@utah.gov

(Interested persons may inspect this filing at the above address or at DAR between 8:00 a.m. and 5:00 p.m. on business days.)

2. Title of rule or section (catchline):

Statewide Amendments to the IPC

3. Type of notice:

Proposed rules		New	X	Amendment		Repeal	
		Repeal and reenact					
Other rule types		Change in proposed rule	(changes original proposed rule file no.:				)

4. Purpose of the rule or reason for the change:

The Division and Uniform Building Code Commission are proposing changes regarding eliminating the anchoring requirements of certain drain pipes. Due to the potential controversy regarding these changes, this rule change is being made as a separate filing so as not to affect the larger main proposed rule filing.

5. This rule or change is a response to comments by the Administrative Rules Review Committee.		Yes	X	No

6. Summary of the rule or change:

Section 707-Statewide Amendments to the IPC: Added amendments affecting Sections 308.7 and 308.7.1. The proposed amendments eliminate the requirement for anchoring certain pipes. Proponents of this requirement state this requirement is not necessary. NOTE: Paragraph numbering will be corrected via a nonsubstantive rule filing once the Division and Uniform Building Code Commission have determined which rule amendment filings should be made effective as there are four rule filings all affecting the same rule.

7. Aggregate anticipated cost or savings to:

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State budget:	There will be no cost to the Division of Occupational and Professional Licensing to print this rule once all proposed amendments are made effective as this rule is no longer printed by the Division, but the rule is available on the Division's website. The Division anticipates by eliminating the anchoring requirement that there would be a savings of approximately $15 per fitting. The number of fittings is variable depending on the project. The savings to the state budget as a result of this proposed amendment would depend on the projects that the state may be involved in.
Local government:	The Division anticipates by eliminating the anchoring requirement that there would be a savings of approximately $15 per fitting. The number of fittings is variable depending on the project. The savings to local governments as a result of this proposed amendment would depend on the projects that the local governments may be involved in.
Other persons:	The Division anticipates by eliminating the anchoring requirement that there would be a savings of approximately $15 per fitting. The number of fittings is variable depending on the project. The savings to owners of building projects as a result of this proposed amendment would depend on the projects that they may be involved in. The aggregate savings of this amendment is impossible to determine except on a project by project basis.

8. Compliance costs for affected persons ("person" means any individual, partnership, corporation, association, governmental entity, or public or private organization of any character other than an agency):

The Division anticipates by eliminating the anchoring requirement that there would be a savings of approximately $15 per fitting. The number of fittings is variable depending on the project. The savings to owners of building projects as a result of this proposed amendment would depend on the projects that they may be involved in.

9. Comments by the department head on the fiscal impact the rule may have on businesses:

The purpose of this rule change is to make amendments to the International Plumbing Code, by eliminating the anchoring and restraining requirements for certain drain pipes. There is an estimated $15 savings per fitting; the number of fittings depends on the project. Thus, there will be a positive fiscal impact to the construction business. Proponents of this amendment claim that there will be no cost to homeowners from eliminating the anchor requirements, as the joints for pipes no longer required to be anchored are strong and would probably last longer than the pipes themselves. The Uniform Building Code Commission will take comments on this rule filing at the public hearing and determine whether the amendment is appropriate. Ted Boyer, Executive Director

10. This rule or change is authorized or mandated by state law, and implements or interprets the following state and federal laws.

State code or constitution citations (required):	Section 58-56-1 and Subsections 58-1-106(1)(a), 58-1-202(1)(a), 58-56-4(2) and 58-56-6(2)(a)
Federal citations (optional):	

11. This rule or change adds or updates an incorporated reference (submit a copy to DAR): [ ] Yes [X] No

Reference title and date of issue or edition:

12. The public may submit written or oral comments to the agency identified in box 1. (The public may also request a hearing by submitting a written request to the agency. The agency is required to hold a hearing if it receives requests from ten interested persons or from an association having not fewer than ten members. Additionally, the request must be received by the agency not more than 15 days after the publication of this rule in the *Utah State Bulletin*. See Section 63-46a-5 and Rule R15-1 for more information.)

Comments will be accepted until 5:00 p.m. on (mm/dd/yyyy):	06/02/2003		
A public hearing (optional) will be held on (mm/dd/yyyy):	05/15/2003	at (time):	9:00 a.m.
at (place):	State Office Building, Room 4112, Salt Lake City, Utah		

13. This rule or change may become effective on (mm/dd/yyyy): 06/03/2003

14. Indexing information - keywords (maximum of four, in lower case):

contractors, building codes, building inspection, licensing

15. Indexing information - affected industries (two-digit SIC codes):

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n/a	
16. Attach a WordPerfect document containing the text of this rule or change (filename):	R156-56.pr2

To the agency: Information requested on this form is required by Sections 63-46a-4, 5, 6, and 10. Incomplete forms may be returned to the agency for completion, possibly delaying publication in the *Utah State Bulletin*, and delaying the first possible effective date.

AGENCY AUTHORIZATION

Agency head or designee, and title:	J. Craig Jackson, Director	Date (mm/dd/yyyy):	03/27/2003

R156. Commerce, Occupational and Professional Licensing.
R156-56. Utah Uniform Building Standard Act Rules.
R156-56-707. Statewide Amendments to the IPC.

The following are adopted as amendments to the IPC to be applicable statewide:

(1) In Section 202, the definition for "Backflow Backpressure, Low Head" is deleted in its entirety.

(2) In Section 202, the definition for "Backsiphonage" is deleted and replaced with the following:

Backsiphonage. The backflow of potentially contaminated, polluted or used water into the potable water system as a result of the pressure in the potable water system falling below atmospheric pressure of the plumbing fixtures, pools, tanks or vats connected to the potable water distribution piping.

(3) In Section 202, the following definition is added:

Certified Backflow Preventer Assembly Tester. A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Subsection 19-4-104(4), Utah Code Ann. (1953), as amended.

(4) In Section 202, the definition for "Cross Connection" is deleted and replaced with the following:

Cross Connection. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow").

(5) In Section 202, the following definition is added:

Heat Exchanger (Potable Water). A device to transfer heat between two physically separated fluids (liquid or steam), one of which is potable water.

(6) In Section 202, the definition for "Potable Water" is deleted and replaced with the following:

Potable Water. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Titles 19-4 and 19-5, Utah Code Ann. (1953), as amended and the regulations of the public health authority having jurisdiction.

(7) In Section 202, the following definition is added:

Trap Arm. That portion of a fixture drain between a trap weir and the vent fitting.

(8) In Section 202, the definition for "Water Heater" is deleted and replaced with the following:

Water Heater. A closed vessel in which water is heated by the combustion of fuels or electricity and is withdrawn for use external to the system at pressures not exceeding 160 psig (1100 kPa (gage)), including the apparatus by which heat is generated, and all controls and devices necessary to prevent water temperatures from exceeding 210 degrees Fahrenheit (99 degrees Celsius).

(9) Section 304.3 Meter Boxes is deleted.

(10) Section 304.4 is deleted and replaced with the following:

304.4 Opening of Pipes. In or on the exterior habitable envelop of structures where openings have been made in walls, floors, or ceilings for the passage of pipes, the annular space between the opening and the pipe shall not exceed 1/2 inch (12.7 mm). Openings exceeding 1/2 inch (12.7 mm) shall be closed and protected by the installation of approved metal collars that are securely fastened to the adjoining structure.

(11) Section 305.8 is deleted and replaced with the following:

305.8 Protection against physical damage. In concealed locations where piping, other than cast-iron or galvanized steel, is installed through holes or notches in studs, joists, rafters or similar members less than 1 1/2 inches (38 mm) from the nearest edge of the member, the pipe shall be protected by shield plates. Protective shield plates shall be minimum of 1/16 inch-thick (1.6 mm) steel, shall cover the area of the pipe where the member is notched or bored, and shall be at least the thickness of the framing member penetrated.

(12) Section 305.10 is added as follows:

Section 305.10 Improper Connections. No drain, waste, or vent piping shall be drilled and tapped for the purpose of making connections.

(13) Sections 308.7 and 308.7.1 are deleted and replaced with the following:

308.7 Anchorage. All draining piping except ABS, PVC, CPVC, PP or any other approved piping material having solvent weld or heat fused joints shall be anchored and restrained to prevent axial movement.

308.7.1 Location. Restraints specified by an engineer and approved by the code official shall be provided for pipe sizes greater than 4 inches (102 mm), having changes in direction greater than 45 degrees and at all changes in diameter greater than two pipe sizes.

(13) Section 311.1 is deleted.

(14) Section 312.9 is deleted in its entirety and replaced with the following:

312.9 Backflow assembly testing. The premise owner or his designee shall have backflow prevention assemblies operation tested at the time of installation, repair and relocation and at least on an annual basis thereafter, or more frequently as required by the authority having jurisdiction. Testing shall be performed by a Certified Backflow Preventer Assembly Tester. The assemblies that are subject to this paragraph are the Spill Resistant Vacuum Breaker, the Pressure Vacuum Breaker Assembly, the Double Check Backflow Prevention Assembly, the Double Check Detector Assembly Backflow Preventer, the Reduced Pressure Principle Backflow Preventer, and Reduced Pressure Detector Assembly, and the spring loaded check valve assembly described in Section 608.16.4.

(15) A new section 403.7 is added as follows:

403.7 Hand sink location. Hand sinks in commercial food establishments shall be located accessible to food preparation areas, food service areas, dishwashing areas, and toilet rooms in accordance with Rule R392-100, Utah Administrative Code. Hand sinks in child care facilities shall be installed in accordance with R430-100-21, Utah Administrative Code.

(16) Section 412.1 is deleted and replaced with the following:

412.1 Approval. Floor drains shall be made of ABS, PVC, cast-iron, stainless steel, brass, or other approved materials that are listed for the use.

(17) Section 412.5 is added as follows:

412.5 Public toilet rooms. All public toilet rooms shall be equipped with at least one of the following:

1. one floor drain with a wall mounted hose bibb;
2. one floor drain with a deep seal trap; or
3. at least one emergency floor drain with trap primer.

(18) Section 418.1 is deleted and replaced with the following:

418.1 Approval. Sinks shall conform to ANSI Z124.6, ASME A112.19.1, ASME A112.19.2, ASME A112.19.3, ASME A112.19.4, ASME A112.19.9, CSA B45.1, CSA B45.2, CSA B45.3, CSA B45.4 or NSF 2.

(19) Section 502.4 is deleted in its entirety.

(20) Section 502.6 is deleted and replaced with the following:

502.6 Water Heater Seismic Bracing. Water heaters shall

be anchored or strapped in the upper third of the appliance to resist a horizontal force equal to one third the operating weight of the water heater, acting in any horizontal direction, or in accordance with the appliance manufacturers recommendations.

(21) Section 504.6.2 is deleted and replaced with the following:

504.6.2 Material. Relief valve discharge piping shall be of those materials listed in Section 605.5 or shall be tested, rated and approved for such use in accordance with ASME A112.4.1. Piping from safety pan drains shall be of those material listed in Table 605.5 and Table 701.1.

(22) Section 504.7.1 is amended as follows:

The measurement of "3/4 inch" in the last sentence of the paragraph is replaced with the measurement "1 1/2 inch".

(23) Section 504.7.2 is deleted and replaced with the following:

504.7.2 Pan drain termination. The pan drain shall extend full-size and terminate over a suitably located indirect waste receptor, floor drain or extend to the exterior of the building and terminate not less than 6 inches (152 mm) and not more than 24 inches (610 mm) above the adjacent ground surface. When permitted by the administrative authority, the pan drain may be directly connected to a soil stack, waste stack, or branch drain. The pan drain shall be individually trapped and vented as required in Section 907.1. The pan drain shall not be directly or indirectly connected to any vent. The trap shall be provided with a trap primer conforming to ASSE 1018 or ASSE 1044.

(24) A new section 504.7.3 is added as follows:

504.7.3 Pan Designation. A water heater pan shall be considered an emergency receptor designated to receive the discharge of water from the water heater only and shall not receive the discharge from any other fixtures, devises or equipment.

(25) Section 602.3 is deleted and replaced with the following:

602.3 Individual water supply. Where a potable public water supply is not available, individual sources of potable water supply shall be utilized provided that the source has been developed in accordance with Sections 73-3-1, 73-3-3, and 73-3-25, Utah Code Ann. (1953), as amended, as administered by the Department of Natural Resources, Division of Water Rights. In addition, the quality of the water shall be approved by the local health department having jurisdiction. The source shall supply sufficient quantity of water to comply with the requirements of this chapter.

(26) Sections 602.3.1, 602.3.2, 602.3.3, 602.3.4, 602.3.5

and 602.3.5.1 are deleted in their entirety.

(27) Section 604.4.1 is added as follows:

604.4.1 Metering faucets. Self closing or metering faucets shall provide a flow of water for at least 15 seconds without the need to reactivate the faucet.

(28) Section 606.2 is deleted and replaced with the following:

606.2 Location of shutoff valves. Shutoff valves shall be installed in the following locations:

1. On the fixture supply to each plumbing fixture.

Exceptions:

A. bath tubs and showers.

B. in individual guest rooms that are provided with unit shutoff valves in hotels, motels, boarding houses and similar occupancies.

2. On the water supply pipe to each appliance or mechanical equipment.

(29) Section 606.5 is deleted and replaced with the following:

606.5 Water pressure booster systems. Water pressure booster systems shall be provided as required by Section 606.5.1 through 606.5.11.

(30) Section 606.5.11 is added as follows:

606.5.11 Prohibited installation. In no case shall a booster pump be allowed that will lower the pressure in the public main to less than 20 psi.

(31) In Section 608.1, the following sentence is added at the end of the paragraph:

Connection without an air gap between potable water piping and sewer-connected waste shall not exist under any condition.

(32) Table 608.1 is deleted and replaced with the following:

TABLE 608.1
General Methods of Protection

Assembly (applicable standard)	Degree of Hazard	Application	Installation Criteria
Air Gap (ASME A112.1.2)	High or Low	Backsiphonage	See Table 608.15.1
Reduced Pressure Principle Backflow Preventer (AWWA C511, USC-FCCCHR, ASSE 1013	High or Low	Backpressure or Backsiphonage 1/2" - 16"	a. The bottom of each RP assembly shall be a minimum of 12 inches above the ground or floor. b. RP assemblies shall

CSA CNA/CSA-B64.4) and Reduced Pressure Detector Assembly (ASSE 1047, USC-FCCCHR)			NOT be installed in a pit. c. The relief valve on each RP assembly shall not be directly connected to any waste disposal line, including sanitary sewer, storm drains, or vents. d. The assembly shall be installed in a horizontal position only unless listed or approved for vertical installation.
Double Check Backflow assembly Prevention Assembly (AWWA C510, USC-FCCCHR, ASSE 1015) Double Check Detector Assembly Backflow Preventer (ASSE 1048, USC-FCCCHR)	Low	Backpressure or Backsiphonage 1/2" - 16"	a. If installed in a pit, the DC shall be installed with a minimum of 12 inches of clearance between all sides of the vault including the floor and roof or ceiling with adequate room for testing and maintenance. b. Shall be installed in a horizontal position unless listed or approved for vertical installation.
Pressure Vacuum Breaker Assembly (ASSE 1020, USC-FCCCHR)	High or Low	Backsiphonage 1/2" - 2"	a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions.

			b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use. c. Shall not be installed below ground or in a vault or pit. d. Shall be installed in a vertical position only.
Spill Resistant Vacuum Breaker (ASSE 1056, USC-FCCCHR)	High or Low	Backsiphonage 1/4" - 2"	a. Shall not be installed in an area that could be subjected to backpressure or back drainage conditions. b. Shall be installed a minimum of 12 inches above all downstream piping and the highest point of use. c. Shall not be installed below ground or in a vault or pit. d. Shall be installed in a vertical position only.
Atmospheric Vacuum Breaker (ASSE 1001 USC-FCCCHR, back CSA CAN/CSA-B64.1.1 conditions.	High or Low	Backsiphonage	a. Shall not be installed in an area that could be subjected to backpressure or drainage b. Shall not be installed where it may be subjected to continuous pressure for more than 12

	consecutive hours at any time. c. Shall be installed a minimum of six inches above all downstream piping and the highest point of use. d. Shall be installed on the discharge (downstream) side of any valves. e. The AVB shall be installed in a vertical position only.
General Installation Criteria	The assembly owner, when necessary, shall provide devices or structures to facilitate testing, repair, and/or maintenance and to insure the safety of the backflow technician. Assemblies shall not be installed more than five feet off the floor unless a permanent platform is installed. The body of the assembly shall not be closer than 12 inches to any wall, ceiling or incumbrance, and shall be accessible for testing, repair and/or maintenance. In cold climates,

assemblies shall be protected from freezing by a means acceptable to the code official.

Assemblies shall be maintained as an intact assembly.

(33) Table 608.1.1 is added as follows:

TABLE 608.1.1
Specialty Backflow Devices for low hazard use only

Device	Degree of Hazard	Application	Applicable Standard
Antisiphon-type Water Closet Flush Tank Ball Cock	Low	Backsiphonage	ASSE 1002 CSA CAN/ CSA-B125
Dual check valve Backflow Preventer	Low	Backsiphonage or Backpressure 1/4" - 1"	ASSE 1024
Backflow Preventer with Intermediate Atmospheric Vent	Low Residential Boiler	Backsiphonage or Backpressure 1/4" - 3/4"	ASSE 1012 CSA CAN/ CSA-B64.3
Dual check valve type Backflow Preventer for Carbonated Beverage Dispensers/Post Mix Type	Low	Backsiphonage or Backpressure 1/4" - 3/8"	ASSE 1032
Hose-connection Vacuum Breaker	Low	Backsiphonage 1/2", 3/4", 1"	ASSE 1011 CSA CAN/ CSA-B64.2
Vacuum Breaker Wall Hydrants, Frost-resistant, Automatic Draining Type	Low	Backsiphonage 3/4", 1"	ASSE 1019 CSA CAN/ CSA-B64.2.2
Laboratory Faucet Backflow Preventer	Low	Backsiphonage	ASSE 1035 CSA CAN/

Hose Connection Backflow Preventer	Low	Backsiphonage 1/2" - 1"	ASSE 1052

Installation Guidelines: The above specialty devices shall be installed in accordance with their listing and the manufacturer's instructions and the specific provisions of this chapter.

(34) In Section 608.3.1, the following sentence is added at the end of the paragraph:

All piping and hoses shall be installed below the atmospheric vacuum breaker.

(35) Section 608.7 is deleted in its entirety.

(36) In Section 608.8, the following sentence is added at the end of the paragraph:

In addition each nonpotable water outlet shall be labeled with the words "CAUTION: UNSAFE WATER, DO NOT DRINK".

(37) In Section 608.11, the following sentence is added at the end of the paragraph:

The coating shall conform to NSF Standard 61 and application of the coating shall comply with the manufacturers instructions.

(38) Section 608.13.3 is deleted and replaced with the following:

608.13.3 Backflow preventer with intermediate atmospheric vent. Backflow preventers with intermediate atmospheric vents shall conform to ASSE 1012 or CAS CAN/CAS-B64.3. These devices shall be permitted to be installed on residential boilers only where subject to continuous pressure conditions. The relief opening shall discharge by air gap and shall be prevented from being submerged.

(39) Section 608.13.4 is deleted in its entirety.

(40) Section 608.15.3 is deleted and replaced with the following:

608.15.3 Protection by a backflow preventer with intermediate atmospheric vent. Opening and outlets to residential boilers only shall be protected by a backflow preventer with an intermediate atmospheric vent.

(41) Section 608.15.4 is deleted and replaced with the following:

608.15.4 Protection by a vacuum breaker. Openings and outlets shall be protected by atmospheric-type or pressure-type vacuum breakers. The critical level of the atmospheric vacuum breaker shall be set a minimum of 6 inches (152 mm) above the flood level rim of the fixture or device. The critical level of the pressure vacuum breaker shall be set a minimum of 12 inches (304 mm) above the flood level rim of the fixture or device.

Ball cocks shall be set in accordance with Section 425.3.1. Vacuum breakers shall not be installed under exhaust hoods or similar locations that will contain toxic fumes or vapors. Pipe-applied vacuum breakers shall be installed not less than 6 inches (152 mm) above the flood level rim of the fixture, receptor or device served. No valves shall be installed downstream of the atmospheric vacuum breaker.

(42) In Section 608.15.4.2, the following is added at the end of the paragraph:

In climates where freezing temperatures occur, a listed, self-draining frost proof hose bibb with an integral backflow preventer shall be used.

(43) Section 608.16.1 is deleted and replaced with the following:

608.16.1 Beverage dispensers. Potable water supply to carbonators shall be protected by a vented dual check valve meeting ASSE Standard 1022 and installed according to the requirements of this chapter.

(44) In Section 608.16.2, the first sentence of the paragraph is deleted and replaced as follows:

608.16.2 The potable water supply to the residential boiler shall be equipped with a backflow preventer with an intermediate atmospheric vent complying with ASSE 1012 or CSA CAN/CSA B64.3.

(45) Section 608.16.3 is deleted and replaced with the following:

608.16.3 Heat exchangers. Heat exchangers shall be separated from potable water by double-wall construction. An air gap open to the atmosphere shall be provided between the two walls.

Exceptions:

1. Single wall heat exchangers shall be permitted when all of the following conditions are met:

a. Utilize a heat transfer medium of potable water or contains only substances which are recognized as safe by the United States Food and Drug Administration (FDA);

b. The pressure of the heat transfer medium is maintained less than the normal minimum operating pressure of the potable water system; and

c. The equipment is permanently labeled to indicate only additives recognized as safe by the FDA shall be used.

2. Steam systems that comply with paragraph 1 above.

3. Approved listed electrical drinking water coolers.

(46) Section 608.16.4 is deleted and replaced with the following:

Section 608.16.4 Connections to automatic fire sprinkler systems and standpipe systems. The potable water supply to automatic fire sprinkler and standpipe systems shall be

protected against backflow by an alarm check valve and spring loaded check valve assembly as shown on the diagram entitled "Riser Detail", dated July 1, 1999, published by State and Local Building Codes Amendments, Department of Commerce, Division of Occupational and Professional Licensing, which is hereby adopted and incorporated by reference.

EXCEPTIONS:

1. When systems are installed as a portion of the water distribution system in accordance with the requirements of this code and are not provided with a fire department connection, isolation of the water supply system shall not be required.

2. Isolation of the water distribution system is not required for deluge, preaction or dry pipe systems.

3. When the sprinkler supply line is less than four inches in diameter and a resilient seated spring loaded single check valve, approved and testable for back flow prevention is not available, then an alternate, approved for fire sprinkler system use, spring loaded check valve is allowed.

(47) Section 608.16.4.1 is deleted and replaced with the following:

Section 608.16.4.1 Additives or nonpotable source. Where systems contain chemical additives or antifreeze, or where systems are connected to a nonpotable secondary water supply, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventor. Where chemical additives or antifreeze are added to only a portion of an automatic fire sprinkler or standpipe system, the reduced pressure principle backflow preventer shall be permitted to be located so as to isolate that portion of the system.

Exception:

1. For systems that use antifreeze only consisting of strictly pure glycerine (C.P. or U.S.P. 96.5 percent grade) or propylene glycol, equipment specified in Section 608.16.4 shall be used.

(48) Section 608.16.4.2 is added as follows:

Section 608.16.4.2 Testing Procedures. The testing procedures are as follows:

1. The check valves are to be tested by a currently certified Class II Backflow Technician in accordance with Rule R309-302 available from the Department of Environmental Quality.

2. All other mechanical devices attached to or part of a class I or class II fire sprinkler system shall be tested by a licensed fire sprinkler contractor.

(49) Section 608.16.6 is deleted and replaced with the following:

608.16.6 Connections to lawn irrigation systems. The potable water supply to lawn irrigation systems shall be protected against backflow by an atmospheric-type vacuum

breaker, a pressure-type vacuum breaker, a double check valve backflow preventer or a reduced pressure principle backflow preventer. A valve shall not be installed downstream from an atmospheric vacuum breaker. Where chemicals are introduced into the system, the potable water supply shall be protected against backflow by a reduced pressure principle backflow preventer.

(50) Section 608.16.7 is deleted and replaced with the following:

608.16.7 Chemical dispensers. Where chemical dispensers connect to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.13.1, Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8.

(51) Section 608.16.8 is deleted and replaced with the following:

608.16.8 Portable cleaning equipment. Where the portable cleaning equipment connects to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.13.1, Section 608.13.2 or Section 608.13.8.

(52) Section 608.16.9 is deleted and replaced with the following:

608.16.9 Dental pump equipment or water syringe. Where dental pumping equipment or water syringes connects to the water distribution system, the water supply system shall be protected against backflow in accordance with Section 608.13.1, Section 608.13.2, Section 608.13.5, Section 608.13.6 or Section 608.13.8.

(53) Section 608.16.10 is added as follows:

608.16.10 Automatic and coin operated car washes. The water supply to an automatic or coin operated car wash shall be protected in accordance with Section 608.13.1 or Section 608.13.2.

(54) Section 608.17 is deleted in its entirety.

(55) Section 701.2 is deleted and replaced with the following:

701.2 Sewer required. Every building in which plumbing fixtures are installed and all premises having drainage piping shall be connected to a public sewer where the sewer is within 300 feet of the property line in accordance with Section 10-8-38, Utah Code Ann., (1953), as amended; or an approved private sewage disposal system in accordance with Rule R317-5501 through R317-513 and Rule R317-5, Utah Administrative Code, as administered by the Department of Environmental Quality, Division of Water Quality.

(56) Section 802.1.1 is deleted and replaced with the following:

802.1.1 Food handling. Equipment and fixtures utilized for the storage, preparation and handling of food shall discharge through an indirect waste pipe by means of an air gap.

Exception: This requirement shall not apply to dishwashing machines and dishwashing sinks. If used for dishwashing and food preparation, a minimum of one compartment of the dishwashing sink shall be drained through an indirect waste pipe by means of an air gap or an air break.

(57) Section 802.3 is amended as follows:

The term "waste receptors" in the last sentence of the paragraph is replaced with the term "floor sinks".

(58) Section 802.3.2 is deleted in its entirety and replaced with the following:

802.3.2 Open hub waste receptors. Waste receptors for clear water waste shall be permitted in the form of a hub or pipe extending not more than 1/2 inch above a water impervious floor and are not required to have a strainer.

(59) Section 803.2 is deleted and replaced with the following:

803.2 Neutralizing device required for corrosive wastes. Corrosive liquids, spent acids or other harmful chemicals that destroy or injure a drain, sewer, soil or waste pipe, or create noxious or toxic fumes or interfere with sewage treatment processes, shall not be discharged into the plumbing system without being thoroughly diluted, neutralized or treated by passing through an approved dilution or neutralizing device. Such devices shall be provided with a sufficient supply of diluting water or neutralizing medium as to make the contents non-injurious before discharge into the drainage system. The nature of the corrosive or harmful waste and the method of its treatment or dilution shall be approved prior to installation.

(60) Section 904.1 is deleted and replaced with the following:

904.1 Roof extensions. All open vent pipes that extend through a roof shall be terminated at least 12 inches (304.8 mm) above the roof, except that where a roof is to be used for any purpose other than weather protection, the vent extension shall be run at least 7 feet (2134 mm) above the roof.

(61) In Section 904.6, the following sentence is added at the end of the paragraph:

Vents extending through the wall shall terminate not less than 12 inches from the wall with an elbow pointing downward.

(62) In Section 905.4, the following sentence is added at the end of the paragraph:

Horizontal dry vents below the flood level rim shall be permitted for floor drain and floor sink installations when installed in accordance with Sections 702.2, 905.2 and 905.3 and provided with a wall clean out.

(63) Section 1002.2 is deleted and replaced with the following:

1002.2 Design of traps. Fixture traps shall be self-scouring. Fixture traps shall not have interior partitions, except where such traps are integral with the fixture or where such traps are constructed of an approved material that is resistant to corrosion and degradation. Slip joints shall be made with an approved elastomeric gasket and shall only be installed on the trap inlet, trap outlet and within the trap seal. One slip joint fitting shall be allowed to be installed downstream of the trap.

(64) Section 1002.8 is deleted and replaced with the following:

1002.8 Recess for trap connection. A recess provided for connection of the underground trap, such as one serving a bathtub in slab-type construction, shall have sides and a bottom of corrosion-resistant, insect- and vermin-proof construction. The annular space between the pipe and the penetration shall not exceed 1/2 inch (12.7 mm).

(65) Section 1002.4.1 is added as follows:

1002.4.1 Emergency floor drains. Each emergency floor drain shall be installed with a trap seal primer. Trap seal primer shall conform to ASSE 1018 or ASSE 1044.

(66) Section 1003.3.5 is added as follows:

1003.3.5 Grease trap restriction. Unless specifically required or permitted by the code official, no food waste grinder or dishwasher shall be connected to or discharge into any grease trap.

(67) Section 1104.2 is deleted and replaced with the following:

1104.2 Combining storm and sanitary drainage prohibited. The combining of sanitary and storm drainage systems is prohibited.

(68) Section 1108 is deleted in its entirety.

(69) Section 1204 is amended to read:

1204 Fuel gas piping systems. All fuel gas piping systems shall be sized, installed, tested and placed in operation in accordance with the requirements of the International Mechanical Code.

(70) Section 1205 is amended to read:

Section 1205 CNG GAS-DISPENSING SYSTEMS

1205.1 Dispenser protection. The gas dispenser shall have an emergency switch to shut off the power to the dispenser. An approved backflow device that prevents the reverse flow of gas shall be installed on the gas supply pipe or in the gas dispenser.

1205.2 Ventilation. Gas-dispensing systems installed inside the structure shall be ventilated by mechanical means in accordance with the 1998 International Mechanical Code.

1205.3 Compressed natural gas vehicular fuel systems. Compressed natural gas (CNG) fuel-dispensing systems for CNG-fueled vehicles shall be designed and installed in accordance with NFPA 52 and the fire code as adopted by the State Fire Marshal.

(71) Chapter 14, Referenced Standards, is amended as follows:

NSF - Standard Reference Number 61-99 - The following referenced in code section number is added: 608.11

The following reference standard is added:

TABLE

USC-FCCCHR 9th Edition Manual of Cross Connection Control	Foundation for Cross-Connection Control and Hydraulic Research University of Southern California Kaprielian Hall 300 Los Angeles CA 90089-2531	Table 608.1

(72) Appendix C of the IPC, Gray Water Recycling Systems, shall not be adopted by any jurisdiction until approved by the Department of Health and the Department of Environmental Quality.

KEY: contractors, building codes, building inspection, licensing
[~~January 1,~~]2003
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58-1-106(1)(a)
58-1-202(1)(a)
58-56-1
58-56-4(2)
58-56-6(2)(a)